

**SOUTHERN SEEDING SERVICE  
4535 WEST MARKET STREET  
GREENSBORO, NORTH CAROLINA**

850 34 0000

Summary of Underground Storage Tank Removal Performed  
December 1992

Prepared by  
Four Seasons Industrial Services, Incorporated

# FOUR SEASONS



Four Seasons Industrial Services, Inc.  
3107 South Elm-Eugene Street • P.O. Box 16590  
Greensboro, North Carolina 27416-0590  
(919) 273-2718 • Fax Number (919) 274-5798

February 1, 1993

Southern Seeding Service, Inc.  
Post Office Box 22092  
Greensboro, North Carolina 27420

Attention: Ralph D. Stout, Jr.  
Reference: **Closure Report for Southern Seeding Service**  
4535 West Market Street  
Guilford County, Greensboro, North Carolina

Dear Mr. Stout:

Four Seasons is pleased to provide this summary of the UST closure at the above referenced facility. The petroleum storage system was comprised of the following vessel:

<u>Tank Identification</u>	<u>Capacity (Gal.)</u>	<u>Previous Contents</u>
#1	6,000	Gasoline

In summary, the tank closure methodology consisted of the following phases and includes references to the U.S. EPA's Underground Storage Tank Rules:

**Phase I**

Removal and proper disposal of all petroleum/sludge/water remaining in the tank (40 CFR 280.71).

**Phase II**

Excavation, removal, and proper disposal of the underground tank (40 CFR 280.71).

**Phase III**

Sample and analyze in-situ soils remaining in the excavated pit to assess the nature and extent of soil contamination, if any (40 CFR 280.72).

**Phase IV**

If soil sampling verifies the presence of contamination, select and implement a remedial action alternative to complete closure (EPA 40 CFR Part 280.72).

**Phase V**

Submit a project completion summary report documenting closure activities demonstrating compliance with closure requirements (EPA 40 CFR 280.74).

On December 7, 1992, Four Seasons mobilized the appropriate equipment and personnel to the referenced site to initiate the tank removal program. Prior to excavation, all residual petroleum contents were removed from the tank utilizing a vacuum truck. A total of 197 gallons of the waste mixture was removed from the storage vessel. The manifest document associated with the proper transportation and disposal of the waste is incorporated herein as Appendix A. The waste mixture was subsequently transported to Four Seasons' Patton Avenue facility in Greensboro, North Carolina. This non-hazardous petroleum mixture was subjected to the following treatment process:

- 1) The waste mixture was initially discharged into an oil/water separator.
- 2) The two phases were decanted following the physical separation.
- 3) The removed oils and sludges were blended with lighter distillates and subsequently incinerated in an US EPA approved industrial boiler permitted under number NCD053008926. Four Seasons used fuel program is conducted in compliance with regulations detailed in the Federal Register, Volume 50, No. 230, issued on November 28, 1985.
- 4) To remove the small amount of petroleum from the water phase the contaminated solution was passed through an air stripping column followed by carbon adsorption treatment.

The utilization of this treatment scheme reduced the contaminant levels in the water phase to the low parts per billion range, thereby allowing discharge into the Greensboro Metro Plant, Publicly Operated Treatment Works (POTW).

Following removal of the underground storage tank, the vessel was secured onto a trailer and transported to Four Seasons' Patton Avenue facility in Greensboro, N.C. At this point, the tank was subjected to appropriate decontamination procedures. A thorough inspection of the removed vessel revealed the following:

<u>Tank Identification</u>	<u>Material of Construction</u>	<u>Inspection Results</u>
#1	Carbon Steel	Minor Corrosion

The tank was noted to have been in good condition upon excavation with only minor corrosion present. No pitting or holes were detected during the visual inspection.

Following completion of the cleaning and decontamination process, the tank was cut into scrap pieces and subsequently transported to a metal recycling facility. The "Tank Disposal Manifest", included in Appendix A, documents the final disposition of the scrap metal as D.H. Griffin Wrecking Company in Greensboro, NC.

Closure Summary Report  
Southern Seeding Service  
4535 West Market Street  
Greensboro, NC  
Page 3 of 3

The closure assessment report is included herein as Appendix B. Contained within this section is a summation of the field investigations, remedial activities, soil sampling and analytical results.

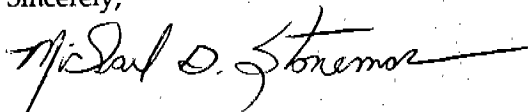
There is one additional copy of this closure summary report for submittal to the Guilford County Department of Emergency Services. Southern Seeding Service should review this document then forward the additional copy to the following address:

Sharon Cihak  
Emergency Services  
Post Office Box 18807  
Greensboro, North Carolina 27419

This report meets all the requirements for closure documentation as specified by 40 CFR 280.74. A copy should also be maintained by your office to document closure activities.

Mr. Stout, thank you for the opportunity to provide these environmental services for Southern Seeding Service. If you should have any further questions or require additional information, please contact our office.

Sincerely,



Michael G. Stoneman  
Corporate UST Program Manager / Staff Geologist

MS/ms  
doc 1216\_1  
enclosures

## Appendix A



# FOUR SEASONS INDUSTRIAL SERVICES, INC.

Post Office Box 16590  
Greensboro, North Carolina 27416  
(919) 273-2718

No 9796

## NON-HAZARDOUS WASTE MANIFEST

Manifest #

F.S.I.S. JOB #92-50329

Date: 12-7-92

Generator:

Southern Seeding Service  
Greensboro, NC

Phone No.:

EPA ID No.:

N/A

Contact:

Process which generated waste:

I certify that the materials described below are properly described, classified, packaged, marked & labeled, and are in proper condition to be transported in commerce under the applicable regulations of the State, the Environmental Protection Agency and the Department of Transportation. I certify that the waste described below is non-hazardous. I certify that the specific waste was delivered to the carrier named below for legal treatment, storage, or disposal at the site indicated.

Date

12-7-92

Signature

Carol L. Johnston

Description of waste	Circle Form	Quantity	Circle Units	Container	
				No.	Type
Gasoline Waste	<input checked="" type="radio"/> Solid <input checked="" type="radio"/> Liquid <input type="radio"/> Gas <input type="radio"/> Sludge	1979 a/s	<input checked="" type="radio"/> Gallons <input type="radio"/> Cu. Yds. <input type="radio"/> Pounds <input type="radio"/> Tons	1	TT

Transporter:

Four Seasons Industrial  
Services 519 Patton Ave  
Greensboro, NC

Unit Number(s)

P-7

Phone No.:

919-273-2718

EPA ID No.:

NC-D-991277732

Vehicle License Tag Number(s)

LT-1794

Container:

Vac Truck

I certify that the specified waste was transferred in a registered (licensed) vehicle to the disposal treatment, storage, or disposal facility named below and was accepted.

Pick-up Driver's Signature

Date

Delivering Driver's Signature

Date

Richard C Joyce Dec 7-92

Richard C Joyce Dec 7-92

Facility:

FOUR SEASONS IND  
519 PATTON Ave  
Greensboro NC 27406

Phone No.

919-273-2718

Contact:

Wayne A. Smith

Handling Method:

PT5021

I certify that the transporter above delivered the specified material to this TSD facility and was accepted and properly handled in the above manner. We are authorized and qualified by the State of NC to handle this material.

Date

12-7-92

Signature:

Wayne A. Smith



# FOUR SEASONS INDUSTRIAL SERVICES, INC.

Post Office Box 16590  
Greensboro, North Carolina 27416-0590  
(919)273-2718

## TANK DISPOSAL MANIFEST

1)	Tank Owner/Authorized Representative: Name and Mailing Address _____ <u>Southern Seeding Service</u> <u>Greensboro, NC</u>														
2)	Tank Owner/Authorized Representative: Phone No. ( ) _____														
3)	Description of Tanks: <table border="1"><thead><tr><th>Tank No.</th><th>Capacity</th><th>Previous Contents</th><th>Comments</th></tr></thead><tbody><tr><td>SS-#1</td><td>6,000</td><td>Gasoline</td><td>#325 good shape</td></tr><tr><td>SS-#2</td><td>4,000</td><td>Gasoline Motor Oil</td><td>#326 pitted</td></tr></tbody></table>			Tank No.	Capacity	Previous Contents	Comments	SS-#1	6,000	Gasoline	#325 good shape	SS-#2	4,000	Gasoline Motor Oil	#326 pitted
Tank No.	Capacity	Previous Contents	Comments												
SS-#1	6,000	Gasoline	#325 good shape												
SS-#2	4,000	Gasoline Motor Oil	#326 pitted												
4)	Tank Owner/Authorized Representative Certification: The undersigned certifies that the above listed storage tanks have been removed from the premises of the tank Owner.  <table border="0"><tr><td><u>X Carol Johnston</u> Printed/Typed Name</td><td><u>Carol Johnston</u> Signature</td><td><u>12-7-92</u> Month Day Year</td></tr></table>			<u>X Carol Johnston</u> Printed/Typed Name	<u>Carol Johnston</u> Signature	<u>12-7-92</u> Month Day Year									
<u>X Carol Johnston</u> Printed/Typed Name	<u>Carol Johnston</u> Signature	<u>12-7-92</u> Month Day Year													
5)	Transporter: The undersigned certifies that the above listed storage tanks have been transported to the Four Seasons Industrial Services facility at 519 Patton Ave. Greensboro, N.C.  <table border="0"><tr><td><u>Dwight G. Smith</u> Printed/Typed Name</td><td><u>Dwight G. Smith</u> Signature</td><td><u>12-7-92</u> Month Day Year</td></tr></table>			<u>Dwight G. Smith</u> Printed/Typed Name	<u>Dwight G. Smith</u> Signature	<u>12-7-92</u> Month Day Year									
<u>Dwight G. Smith</u> Printed/Typed Name	<u>Dwight G. Smith</u> Signature	<u>12-7-92</u> Month Day Year													
6)	Decontamination Manager: The undersigned certifies that the above listed storage tanks have been cleaned and scrapped.  <table border="0"><tr><td><u>Waymon H. A. Taylor Jr.</u> Printed/Typed Name</td><td><u>Waymon H. A. Taylor Jr.</u> Signature</td><td><u>12-8-92</u> Month Day Year</td></tr></table>			<u>Waymon H. A. Taylor Jr.</u> Printed/Typed Name	<u>Waymon H. A. Taylor Jr.</u> Signature	<u>12-8-92</u> Month Day Year									
<u>Waymon H. A. Taylor Jr.</u> Printed/Typed Name	<u>Waymon H. A. Taylor Jr.</u> Signature	<u>12-8-92</u> Month Day Year													
7)	Disposal Certification: The undersigned certifies that the above-named storage tank(s) have been cut into scrap pieces and accepted by the metal recycling facility.  Recycling Facility: <u>W. H. Griffin Wrecking Co.</u> <table border="0"><tr><td><u>Robert Fields</u> Printed/Typed Name</td><td><u>Robert Fields</u> Signature</td><td><u>12-9-92</u> Month Day Year</td></tr></table>			<u>Robert Fields</u> Printed/Typed Name	<u>Robert Fields</u> Signature	<u>12-9-92</u> Month Day Year									
<u>Robert Fields</u> Printed/Typed Name	<u>Robert Fields</u> Signature	<u>12-9-92</u> Month Day Year													

## Appendix B



Underground Storage Tank Closure Assessment  
Southern Seeding Service, Inc.  
Greensboro, North Carolina

**Introduction:**

Four Seasons Industrial Services, Inc. was contracted by Southern Seeding Service to perform the permanent closure of a single gasoline underground storage tank located at 4535 West Market Street in Greensboro, NC. All necessary state and local permits were obtained prior to commencement of removal operations.

**Field Investigation:**

The soils above and around the UST were excavated as the vessel was removed from the pit. A site diagram documenting the location of the tank is contained herein as Appendix C.

The technician utilizing a photoionization detector (PID), screened the excavated soils for emissions of total Volatilized Organic Compounds (VOC's). Soil samples for screening were obtained by placing the soils into a clean container and sealing. The gases in the soil were allowed to equilibrate with the atmosphere in the container for approximately ten minutes. The PID probe was then inserted into the container and a reading of total VOC's was obtained.

PID readings on soils collected from around the fill line registered VOC concentrations in excess of 2,000 parts per million. These soils were noted to have been stained and exuded a strong petroleum odor.

**Remedial Activities:**

Based upon the PID readings and the obvious evidence of contamination, Four Seasons excavated approximately 120 cubic yards of petroleum contaminated soil from around the fill line and pit floor. The waste material was subsequently stockpiled on site and secured with polyethylene sheeting. Due to the location of the contaminated soil, it is suspected that the release was due to overfills of gasoline during the life of the vessel.

**Soil Sampling:**

Following the remedial operations, a track excavator bucket was utilized to collect a single soil sample from each side wall and two (2) soil samples from the floor of the excavation to document the effectiveness of the remedial operations. The side wall samples were labeled 2NW, 2SW, 2EW and 2WW. Soil samples collected from the pit floor were designated 2PFW and 2PFE.

Upon collection, all soil samples were placed into laboratory provided glassware, sealed, labeled with a tag identifying job name, job number, sample number, date, time, method of collection, analysis to be conducted, sampler's name, and remarks. All samples were then placed in a cooler and chilled to approximately 4 degrees Celsius before being transported to the laboratory utilizing EPA approved chain-of-custody procedures to ensure sample integrity.

Closure Assessment  
Southern Seeding Service  
4535 West Market Street  
Greensboro, NC  
Page 2 of 2

**Laboratory Results:**

Soil samples that were collected following the remedial operations had the following analytical results for Total Petroleum Hydrocarbons by Gas Chromatograph utilizing USEPA Method 5030:

<u>Sample #</u>	<u>Location</u>	<u>Depth</u>	<u>Result (mg/kg)</u>
2NW	North Wall	N/A	BQL
2SW	South Wall	N/A	BQL
2EW	East Wall	N/A	BQL
2WW	West Wall	N/A	BQL
2PFW	Pit Floor - West	12'	BQL
2PFE	Pit Floor - East	12'	BQL

*BQL = Below Quantitation Limit of 10 mg/kg*

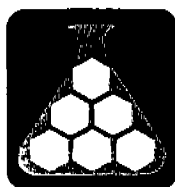
Appendix C contains a site diagram whereby sampling locations and pertinent physical structures are documented. Also contained in the appendix is the completed site investigation report for permanent closure or change-in-service of UST.

**Recommendations:**

Based upon the analytical results of the post-remediation soil samples which were below the DEM action level of 10 mg/kg and the absence of any visible petroleum contamination or odors, Four Seasons recommends the excavation be considered for clean closure.

**Conclusions:**

The excavation was backfilled and site restoration activities completed on December 18, 1992.



# RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations

16 December 1992

Four Seasons Industrial Services  
P.O. Box 16590  
Greensboro, NC 27416  
Attn: Mr. Michael Stoneman

-----  
Project Name: 4535 W. Market St.  
Project Number: 92-50329  
-----

<u>Sample Number</u>	<u>Date Taken</u>	<u>Time (hrs)</u>	<u>Station Location</u>	<u>RAL Sample#</u>	<u>EPA* Method</u>	<u>Results (ppm)</u>
2NW	12/10/92	1110	North Wall	154246	5030	<10
2SW	12/10/92	1115	South Wall	154247	5030	<10
2EW	12/10/92	1050	East Wall	154248	5030	<10
2WW	12/10/92	1100	West Wall	154249	5030	<10
2PFW	12/10/92	1030	Pit Floor West	154350	5030	<10
2PFE	12/10/92	1045	Pit Floor East	154351	5030	<10

\*EPA Method 5030 = Total Petroleum Hydrocarbons as Gasoline  
ppm = parts per million  
< = less than

# CHAIN OF

Project Number: 92-50329

**Project Name:**

4535 W. Market Street

**Samplers**  
**Names:**

Samplers Names: Carl Bringer

[illegible]

Field Remarks:

Field Remarks:  
Send Results to Michael Stoneman

## RESULTS

- a. Rush Standard

Name: Michael Stene

Name: \_\_\_\_\_

Page: 12-5

Received By: K. G. G. G.

Date: 7-10

## Chain Of Custody

Name: \_\_\_\_\_

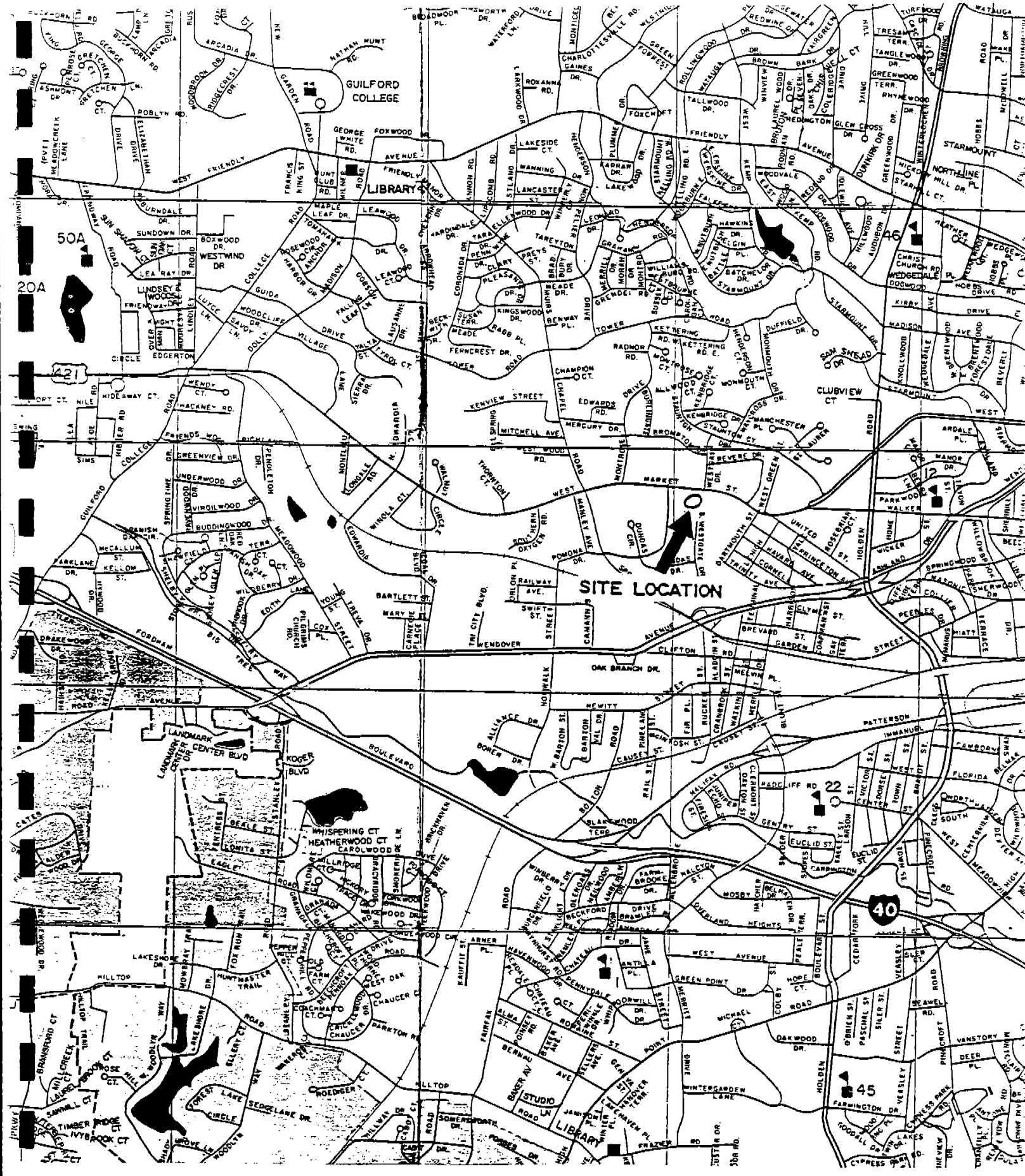
Received By:


Date:

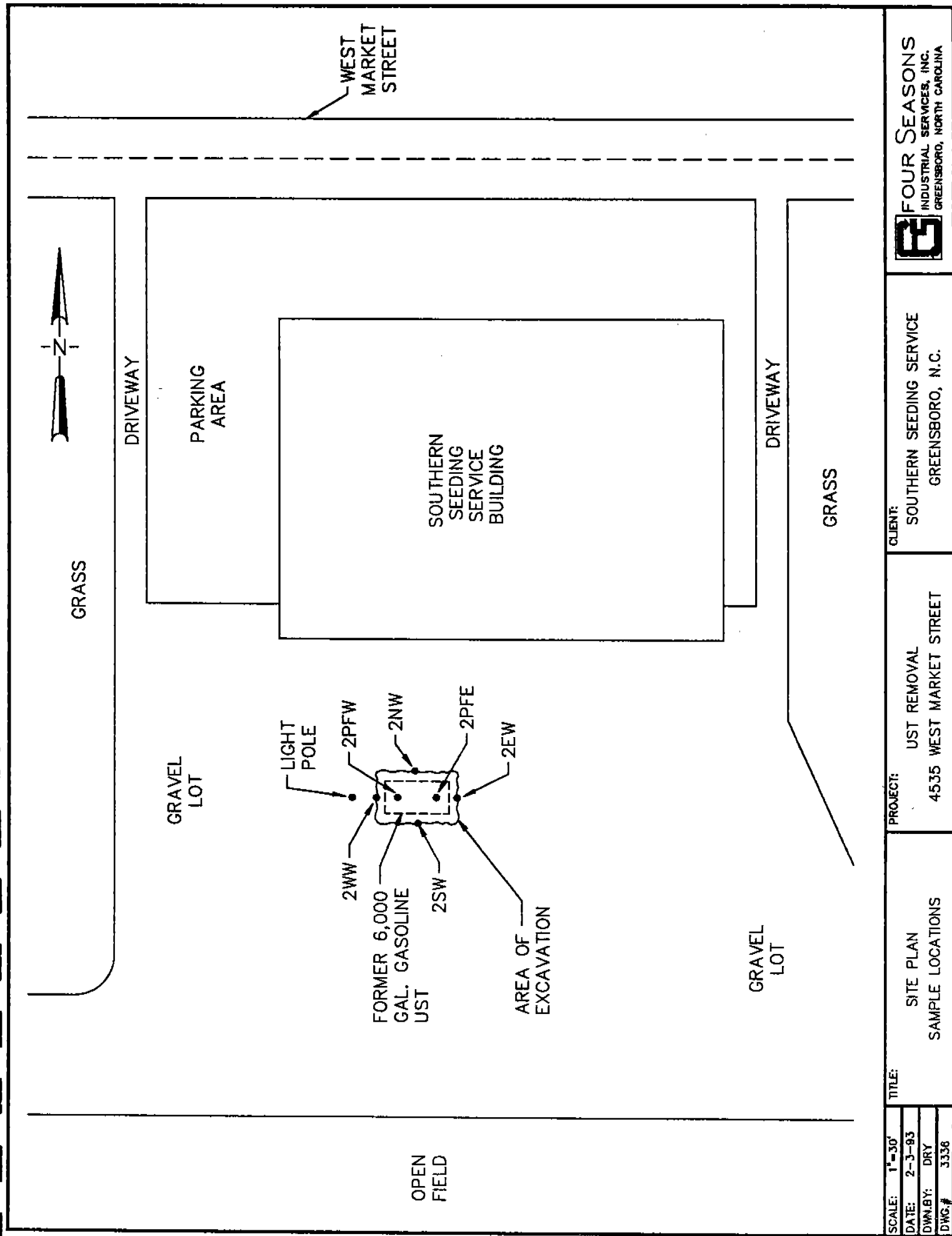
**Master Control Number:**

№ 03260

## Appendix C



<p>TITLE</p> <p><b>SITE MAP</b></p>	<p>CLIENT:</p> <p><b>SOUTHERN SEEDING SERVICE</b></p> <p><b>4535 WEST MARKET STREET</b></p>	<p> <b>FOUR SEASONS</b></p> <p>INDUSTRIAL SERVICES INC.</p> <p>GREENSBORO, NORTH CAROLINA</p>
-------------------------------------	---------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



SCALE: 1"=30'	TITLE:
DATE: 2-3-83	SITE PLAN
DWN.BY: DRY	SAMPLE LOCATIONS
DWG.# 3338	

PROJECT:	UST REMOVAL
4535 WEST MARKET STREET	

CLIENT:	SOUTHERN SEEDING SERVICE
GREENSBORO, N.C.	

**FOUR SEASONS**  
INDUSTRIAL SERVICES, INC.  
GREENSBORO, NORTH CAROLINA

# GW/UST-2) Site Investigation Report For Permanent Closure or Change-in-Service of U.S.T.

FOR  
TANKS  
IN  
NC

Return Completed Form To:  
The appropriate DEM Regional Office according to the county of the facility's location.  
[SEE MAP ON REVERSE SIDE OF OWNER'S COPY (PINK) FOR REGIONAL  
OFFICE ADDRESS].

State Use Only  
I.D. Number \_\_\_\_\_  
Date Received \_\_\_\_\_

## INSTRUCTIONS

Complete and return within (30) days following completion of site investigation.

### I. Ownership of Tank(s)

Southern Seeding Service, Inc  
Owner Name (Corporation, Individual, Public Agency, or Other Entity)  
PO Box 22092  
Street Address  
Guilford County  
County  
Greensboro, NC 27420  
City State Zip Code  
(919) 292-2917  
Area Code Telephone Number

### II. Location of Tank(s)

Southern Seeding Service, Inc.  
Facility Name or Company  
N/A  
Facility ID # (if available)  
4535 West Market Street  
Street Address or State Road  
Guilford Greensboro NC 27407  
County City Zip Code  
(919) 292-2917  
Area Code Telephone Number

### III. Contact Person

Rolph D. Stout, Jr President (919) 292-2917  
Name Job Title Telephone No. (Area Code)  
Closure Contractor Four Seasons Industrial Services - Greensboro NC (919) 277-2718  
(Name) (Address) Telephone No. (Area Code)  
Lab Research Analytical Laboratories, Inc - Kernersville NC (919) 996-2841  
(Name) (Address) Telephone No. (Area Code)

### IV. U.S.T. Information

### V. Excavation Condition

### VI. Additional Information Required

Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water in Excavation		Free Product		Notable Odor or Visible Soil Contamination	
				Yes	No	Yes	No	Yes	No
1	6,000	96" x 16'	Gasoline		X		X	X	

See reverse side of pink copy  
(owner's copy) for additional  
information required by  
N.C. - DEM in the  
written report and sketch.

→ Prior to  
Remediation

### VII. Check List

Check the activities completed.

- ☒ Contact local fire marshal
  - ☒ Notify DEM Regional Office before abandonment
  - ☒ Drain & flush piping into tank
  - ☒ Remove all product and residuals from tank
  - ☒ Excavate down to tank
  - ☒ Clean and inspect tank
  - ☒ Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps and other tank fixtures.
  - ☒ Cap or plug all lines except the vent and fill lines.
  - ☒ Purge tank of all product & flammable vapors.
  - ☒ Cut one or more large holes in the tanks.
  - ☒ Backfill the area.
- Date Tank(s) Permanently closed: 12-7-92  
Date of Change-in-Service: N/A

- ABANDONMENT IN PLACE**
- ☐ Fill tank until material overflows tank opening.
  - ☐ Plug or cap all openings.
  - ☐ Disconnect and cap or remove vent line
  - ☐ Solid inert material used - specify: \_\_\_\_\_

- REMOVAL**
- ☐ Create vent hole (existing vent hole)
  - ☒ Label tank
  - ☒ Dispose of tank in approved manner
- Final tank destination: D.H. Griffin Wrecking  
Company - Greensboro, NC

### VIII. Certification (Read and Sign)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Print name and official title of owner or owner's authorized representative  
Michael G. Stoneman (Corp UST Mgr)

Signature  
Michael D. Stoneman FSN/

Date Signed

2-1-93